CENTAUR® 12x40

Catalytic Granular Activated Carbon

Applications

- Industrial Processes
- Environmental Water
- Pond/ Aquarium/Swim
- Landfill Leachate
- Bottle & Brewing
- Groundwater
- Water Processing
- Drinking Water (Potable)
- Consumer Filtration
- Wastewater

CENTAUR 12x40 is a unique catalytic activated carbon that can be utilized in the liquid phase for the promotion of oxidation, reduction, decomposition, substitution, and elimination reactions. Specific applications include chloramines and hydrogen sulfide removal from potable, process and other waters and peroxide destruction.

The catalytic activity and enhanced adsorption ability makes CENTAUR 12x40 a good performer in other applications such as the treatment of process water in the bottling and soft drink industries and in treating aquarium water.

Description

CENTAUR 12x40 is a liquid phase virgin activated carbon produced from bituminous coal using a patented process. Although it is not impregnated with metals or alkali, it displays the catalytic functionality of these materials.

The product is unique in that it concentrates reactants via adsorption and then promotes their reaction on the surface of the pores. In most cases CENTAUR 12x40 can be reactivated and does not present the disposal concerns associated with impregnated carbons.

This product complies with ANSI/AWWA B604 (2005) – Granular Activated Carbon and complies with the requirements for activated carbon as defined by the Food Chemicals Codex (FCC) (8th Edition) published by the U.S. Pharmacopeia.

Features / Benefits

- Combines a fine pore structure and high catalytic activity for enhanced adsorption of trace contaminants
- Not impregnated
- High hardness
- Simple equipment design (no pumps or addition of chemicals required)
- Smaller system size as compared to standard carbons; lower capital requirements
- No safety concerns with exotherms or toxicity as with impregnated carbons
- Wide applicability; can eliminate chemical addition

Specifications	CENTAUR 12x40
Iodine Number, mg/g	825 (min)
Ash, wt%	7 (max)
Moisture (As Packaged), wt%	3 (max)
Abrasion Number	75 (min)
Density (Apparent), g/cc	0.56 (min)
Mean Particle Diameter, mm	0.9–1.1
12 US Mesh [1.70mm], wt%	5.0 (max)
<40 US Mesh [0.425mm] (PAN), wt%	4.0 (max)

Safety Message

Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

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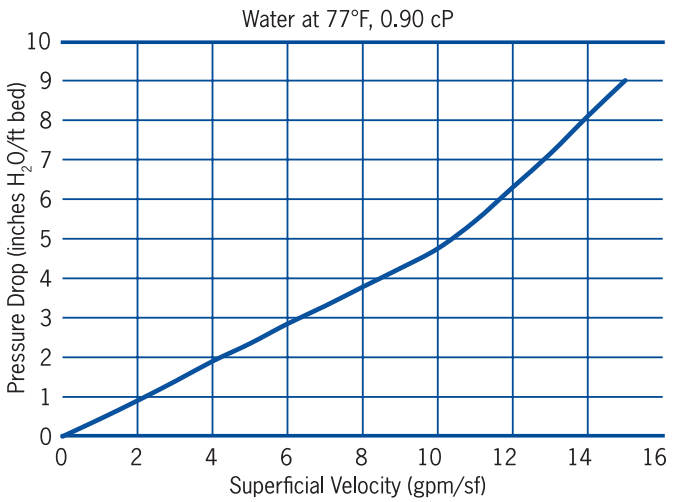
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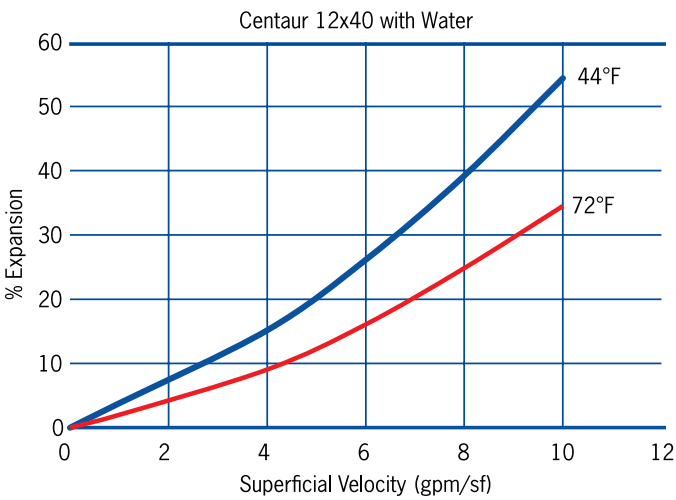
Typical Pressure Drop (CENTAUR 12x40)

Based on a backwashed and segregated bed



Purchase of this product from Calgon Carbon Corporation includes a license under the following U.S. Patents: 5356849 and 5494869

Typical Bed Expansion During Backwash



Design Considerations

CENTAUR 12x40 is intended primarily for use in liquid phase applications where maximization of catalytic reaction is desired. Depending on the reactant type, concentrations and process conditions, the contact time in fixed bed systems is typically less than seven minutes.

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